

6TH ISRM EUROPEAN ROCK MECHANICS DEBATE

Failure criteria: Mohr-Coulomb vs Hoek&Brown

Time: 2024, October 16th, 16:00 (CET)

Links: inscription (https://us06web.zoom.us/meeting/register/tZAoce2ggDorHNMITiPzYU8bMiaxOU3I77_Y) & YouTube channel (<https://www.youtube.com/@IntSocRockMechanics>).

Copy – paste the link in your browser to register and attend the zoom meeting or to follow the debate on the YouTube channel.

Moderator: Philippe Vaskou (France)

Speaker 1: Joseph Labuz (University of Minnesota - USA): Mohr-Coulomb



Dr. Labuz is a Professor in the Department of Civil, Environmental, and Geo-Engineering at the University of Minnesota. He received his degrees in civil engineering, with BS from Illinois Tech, MS and PhD from Northwestern University. In 1987, he joined the faculty at the University of Minnesota. His awards include best papers (48th US Rock Mechanics Symposium, 2014; Giovanni Barla Best Paper, Rock Mechanics and Rock Engineering, 2022) and an honorary chair (Department of Civil and Construction Engineering, National Taiwan University of Science and Technology, 2016). He is a Fellow of the American Society of Civil Engineers and the American Rock Mechanics Association. His research activities have focused on experimental geomechanics, lately dealing with fluid-rock interactions related to mineral carbon storage.

Speaker 2: Ming Cai (Laurentian University - Canada) – Hoek & Brown



Dr. Cai is a Full Professor in Laurentian University's School of Engineering and Computer Science and holds a position as Geomechanics Research Chair. Dr. Cai holds Bachelor's and Master's degrees from Tsinghua University in China and a PhD degree from the University of Tokyo in Japan. Prior to joining Laurentian University, he worked for Mansour Group Inc., MIRARCO, Tokyo Electric Power Services Ltd., and Tsinghua University and had over 30 years of research, education, and industry experience. He has a wide variety of interests in rock mechanics and rock engineering and has made exceptional technical and scientific contributions to this field. Dr. Cai is the author/co-author of more than 250 scientific publications. He was awarded the Canadian Geotechnical Society's John A. Franklin Award in 2017 for his contribution to rock mechanics and rock engineering.

ISRM EUROPEAN ROCK MECHANICS DEBATE SERIES (Eurock Debates)

The series of debates aim at stimulating communications among academics and practitioners of rock mechanics and rock engineering in Europe. It is hoped that the European network of rock mechanics and rock engineering is strengthened through such communications. The debates are held virtually and each one will have two speakers, with different perspectives on a hot rock engineering topic or on a specific technical aspect of rock mechanics. One of the main aims is also to collect opinions and suggestions from the rock mechanics community.

The debating topics are selected by an ad hoc Organising Committee, initially on the basis of three debates per year.

Organizing Committee: Philippe Vaskou (philippe.vaskou@outlook.fr) & Muriel Gasc, Europe ISRM Vice-President (muriel.gasc@cerema.fr)

EUROCK DEBATE RULES

Debates, in one form or another, are commonly used in democratic societies to explore and resolve issues and problems and in scientific societies to foster research and development. The guidelines are the following:

- A topic is selected by the organizers. Suggestions from rock mechanics academics and practitioners are welcome. Two speakers will be invited to briefly introduce the topic from different point of views (theory/practice, lab/in situ, academic/practical, empirical/observational approach...) with the aim of fostering debate.
- The chairman/moderator welcomes the audience and then introduces the topic for the seminar and will also present both speakers for a short time.
- Both speakers present the basics of the topics from their point of view and comment on possible open issues or aspects needing more research, based on a prepared presentation. Every speaker will have 15 minutes time to do that.
- Both speakers have 5 minutes to comment, deepen, illustrate or rebut the presentation of the other speaker. The idea is investigating what can add the perspective of the other speaker to the work develop by the speaking one.
- A free round of questions preferably to both speakers is open and moderated by the chairman. Short questions and answers are preferred. This can extend for a time between 15 and 30 minutes.
- 1 minute will be given to every speaker to wrap-up his/her comments and points of view. The chairman closes the meeting.